

REMARKS

Claims 1-19 continue to be the pending claims in the application.

Reconsideration of the application in light of the remarks which follow is respectfully requested.

Claim Rejections - 35 U.S.C. § 103

Claims 1-19 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Ahluwalia (U.S. Patent No. 5,965,257) in view of Langer (U.S. Patent No. 4,600,634).

The Examiner contends that Ahluwalia discloses an article comprising a substrate having an ionic charge which is coated with a coating having essentially the same ionic charge, wherein the coating consists of a filler material and a binder material. The Examiner notes that the substrate is preferably fiberglass and the filler is selected from fly ash, charged calcium carbonate, and ceramic microspheres. The Examiner then contends that Ahluwalia teaches that it was well known to use clay as a filler material. The Examiner concedes that Ahluwalia does not teach that a metallic component is adhered to the coated substrate on one or both sides. The Examiner alleges that Langer discloses flexible fibrous endothermic sheet materials for fire protection wherein a backing comprising an aluminum foil is added to the backing of the sheet material to give an added degree of strength to the sheet material. The Examiner then contends that it would have been obvious to have used Langer's aluminum sheet to one or both sides of the coated substrate of Ahluwalia.

The Claimed Invention

Claims 1-19 relate to a composite material comprising a substrate having an ionic charge, a coating which coats the substrate having essentially the same ionic charge, and a metallic component adhered to the coated substrate wherein said coating consists essentially of a filler material comprising clay and a binder material, wherein said binder material bonds

the filler material together and to the substrate and wherein said coating does not bleed through said substrate.

The Patents Cited in the Office Action

As explained in Applicants response filed on January 26, 2007, the entirety of which is incorporated herein by reference, Ahluwalia is not prior art to the instant claimed invention. During a telephone interview with the Examiner on March 22, 2007, the Applicants' undersigned representatives advised that Ahluwalia had not been regarded as prior art during the prosecution of Application Serial No. 09/663,256, which issued as U.S. Patent No. 6,500,566 on December 31, 2002, and that the declarations of the inventors which had been filed in the'256 application had been submitted at the suggestion of Examiner Bernatz. The Examiner replied during the March 22, 2007 interview that she would consider that information in her further review of the instant claims. Even if Ahluwalia is considered as prior art to the presently claimed invention, it does not render the claims unpatentable.

Ahluwalia discloses a structural article which is made by coating a substrate having an ionic charge with a coating having essentially the same ionic charge. The substrate is described as a reinforcement material (col. 2, line 12) and can be a woven or non-woven mat material. *See* Ahluwalia, col. 4, lines 38-41. In the working Examples, a fiberglass mat is used as the preferred substrate of Ahluwalia (*see* Examples I-VII). The coating consists essentially of a filler material and a binder material. *See* Ahluwalia, col. 1, line 66 to col. 2, line 3. The coating may occur on one or both sides of the substrate. Ahluwalia, col. 3, lines 43-44. The filler may include charged calcium carbonate or ceramic microspheres. Ahluwalia, col. 2, lines 23-24. The coating is prepared by using a binder material, such as acrylic latex polymer. Planar articles are preferred. Ahluwalia, col. 3, lines 42-43.

Langer discloses an endothermic, non-insulating, flexible, fibrous material used for fire protection. The endothermic material is generally made by mixing together

inorganic fibers, binder and inorganic endothermic filler to form a slurry, coagulating the binder, forming a floc suspension, and placing the floc suspension on a Fourdrinier wire screen to drain it which yields “ a mass in which the inorganic fibers are mechanically interlocked and bound together by the polymer binder and [in which] the endothermic filler occupies the interstices between the fibers.” (See Langer, col. 3, entire column, to col. 4, lines 1-7). Langer further discloses an alternative embodiment of its invention which involves adding a reinforcing backing material to the sheet material to give the sheet material strength. (Col. 4, lines 8-27). As one suitable reinforcing material, Langer describes aluminum foil having a thickness of about 0.08mm which is applied with a pressure sensitive adhesive on one side of the disclosed fibrous sheets of Langer. See Langer, col. 4, lines 8-16. As another suitable reinforcement material, Langer describes a woven or non-woven fabric scrim adhered to one side of the fibrous sheets. See Langer, col. 4, lines 17-27.

There is No *Prima Facie* Case of Obviousness

Ahluwalia and Langer do not support a *prima facie* case of obviousness. To establish a *prima facie* case of obviousness, three criteria must be met. First, there must be some suggestion or motivation in the cited references themselves or in the knowledge generally available to one of ordinary skill in the art to modify the reference or to combine reference teachings. Second, there must be a reasonable expectation of success. Third, the combined references must teach or suggest all the claimed limitations. The teaching or suggestion to make the claimed combination and the reasonable expectation of success must both be found in the prior art and must not be based on the Applicants disclosure. *In re Vaeck*, 947 F2d 488, 20 USPQ 2d 1438 (Fed. Cir. 1991); MPEP § 2142.

As noted in Applicants previous Response dated June 30, 2006, which is incorporated herein by reference, combining the cited references does not result in a teaching or suggestion of all of the claimed limitations. Every element of the invention must be present

in the prior art in order for an Examiner to make out a *prima facie* case of obviousness. Applicants' claimed invention includes a surfactant component as well as surfactant-generated microcells.

The Examiner contends that Langer provides the teaching of the metallic component of the present claims and alleges that a skilled artisan looking to Langer would be motivated to include a foil layer to the compositions of Ahluwalia. Applicants respectfully disagree. Langer generally relates to fibrous sheet materials that are made by mixing together inorganic fibers, an organic binder and an inorganic, endothermic filler and forming a sheet material therefrom. *See* Langer, col. 3 in its entirety. The sheet materials may be made stronger by including a reinforcing backing material, which may be either an aluminum foil or a fabric scrim. *See* Langer, col. 4, lines 8-27. In contrast, Ahluwalia, as noted above, generally relates to structural articles comprising a reinforcing substrate (*i.e.*, a fabric scrim) having an ionic charge, coated with a coating having the same ionic charge. The skilled artisan would not be motivated by the teachings of Langer to include an additional reinforcing backing material in Ahluwalia because the skilled artisan would conclude that Ahluwalia already includes such a backing material, *i.e.*, it already includes a fabric scrim.

Thus, Applicants assert that the skilled artisan would not be motivated to combine the teachings of Ahluwalia and Langer. Applicants further assert that the combination of Ahluwalia and Langer fails to teach each and every limitation of the present claims. Accordingly, Applicants respectfully request withdrawal of the rejection of claims 1-17 under 35 U.S.C. § 103(a).

Conclusion

In view of the foregoing remarks, Applicants submit that the present invention is now in condition for allowance. Accordingly, favorable reconsideration of the application is earnestly solicited. Please send any further correspondence relating to this application to the undersigned attorney at the address below.

Applicants believe no fee is due in connection with this communication. However, should any fee be due in connection with this communication, the Commissioner is authorized to charge any such fee to Deposit Account No. 06-1205.

Applicants' undersigned attorney may be reached in our New York office by telephone at (212) 218-2100. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

/Alicia A. Russo/
John D. Murnane
Registration No. 29,836

Alicia A. Russo
Registration No. 46,192
Attorneys for Applicants

FITZPATRICK, CELLA, HARPER & SCINTO
30 Rockefeller Plaza
New York, New York 10112-3800
Facsimile: (212) 218-2200

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